In the Claims:

Claim 1-3 and 11-13 are canceled. Claims 4-6, 14, 15, 19-21, and 23 are amended. The claims are as follows:

- 1. (Canceled)
- 2. (Canceled)
- 3. (Canceled)
- 4. (Currently Amended) The semiconductor device of claim [[1]] 21, wherein the transmitter is further adapted to terminate the data transfer upon detection of the impedance mismatch.
- 5. (Currently Amended) The semiconductor device of claim [[1]] 21, wherein the first core and the second core are each selected from the group consisting of a microcontroller, a microprocessor, and an integrated circuit.
- 6. (Currently Amended) The semiconductor device of claim [[1]] 21, wherein the signal is a voltage signal, and wherein the transmitter is adapted to receive a reflection of the voltage signal.
- 7. (Previously presented) The semiconductor device of claim 6, wherein the transmitter comprises a voltage comparator adapted to compare an amplitude of the voltage signal to an

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amplitude of the reflection of the voltage signal.

- 8. (Original) The semiconductor device of claim 7, wherein the voltage comparator is further adapted generate a control signal and transmit the control signal to the first core.
- 9. (Original) The semiconductor device of claim 8, wherein the control signal is an enable signal adapted to enable the data transfer between the first core and the second core.
- 10. (Original) The semiconductor device of claim 8, wherein the control signal is a disable signal adapted to disable the data transfer between the first core and the second core.
- 11. (Canceled)
- 12. (Cancoled)
- 13. (Canceled)
- 14. (Currently Amended) The method of claim [[11]] 23, further comprising terminating by the transmitter, the data transfer upon detection of the impedance mismatch.
- 15. (Currently Amended) The method of claim [[11]] 23, wherein the signal is a voltage signal; and

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receiving by the transmitter, a reflection of the voltage signal.

- 16. (Original) The method of claim 15, wherein the transmitter comprises a voltage comparator; and comparing by the voltage comparator, an amplitude of the voltage signal to an amplitude of the reflection of the voltage signal.
- 17. (Original) The method of claim 16, further comprising:

 generating by the voltage comparator, a control signal; and

 transmitting by the voltage comparator the control signal to the first core.
- 18. (Original) The method of claim 17, wherein the control signal is a disable signal, and further comprising

disabling by the disable signal, the data transfer between the first core and the second core.

- 19. (Currently Amended) The method of claim [[11]] 23, further comprising:

 creating by the receiver, an impedance match to indicate that the second core is able to
 transfer the data between the first core and the second core; and
 detecting by the transmitter, the impedance match.
- 20. (Currently Amended) The method of claim [[11]] 23, wherein the first core and the second core are selected from the group consisting of a microcontroller, a microprocessor, and an

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integrated circuit.

21. (Currently Amended) A semiconductor device comprising:

wherein the transmitter, receiver, and transmission line formed within the semiconductor device, wherein the transmitter, receiver, and transmission line are adapted to control a data transfer between a first core and a second core within the semiconductor device, wherein each of said transmitter and said receiver is external to said first core and said second core, wherein said transmitter comprises a line driver, wherein said receiver comprises a line receiver, wherein said transmission line electrically connects an output of said line driver to an input of said line receiver, wherein the transmitter is adapted to send a signal over the transmission line to the receiver adapted to receive the signal, wherein the receiver is further adapted to create an impedance mismatch to indicate that the second core is busy performing functions and is unable to transfer the data, wherein the transmitter is adapted to detect the impedance mismatch. The semiconductor device of claim 1, wherein the receiver comprises a switch and a capacitor, wherein the switch is electrically connected between the transmission line and the capacitor, wherein the switch is for connecting the capacitor to the transmission line, and wherein the capacitor is adapted to change an impedance of the transmission line to create the impedance mismatch.

22. (Previously presented) The semiconductor device of claim 21, wherein the receiver comprises a controller electrically connected to the switch, and wherein the controller is adapted to enable and disable the switch.

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23. (Previously presented) A method for controlling data transfer, comprising:

providing a transmitter, a receiver, and a transmission line for controlling the data transfer between a first core and a second core within a semiconductor device, wherein each of said transmitter and said receiver is external to said first core and said second core, wherein said transmitter comprises a line driver, wherein said receiver comprises a line receiver, a switch, and a capacitor, wherein the switch is electrically connected between the transmission line and the capacitor, and wherein said transmission line electrically connects an output of said line driver to an input of said line receiver;

sending, by the transmitter, a signal over the transmission line to the receiver;

connecting, by the switch, the capacitor to the transmission line; and

changing, by the capacitor, an impedance of the transmission line to create the an

impedance mismatch [[.]] to indicate that the second core is busy performing functions and is

unable to transfer the data between the first core and the second core; and

The method of claim 11, wherein the receiver comprises and wherein said method further comprises:

24. (Previously presented) The semiconductor device of claim 23, wherein the receiver comprises a controller electrically connected to the switch, and wherein the method further comprises:

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enabling or disabling, by said controller, the switch.